



*Joint Intermodal Working
Group*

Joint Standardization Board for Intermodal Equipment (JSBIE)

Presenter: Anna Wojciechowski,
Tank-automotive Research, Development and
Engineering Command
JIWG Standards Committee Chair
22-23 May 2006

Agenda

- Purpose
- Joint Intermodal Working Group (JIWG):
 - Composition/Mission/Authorities
 - Scope
 - Structure/Committees
 - Standardization Goals
 - Standards Committee
- Current Initiatives
 - Unitization Demo
 - Joint Modular Intermodal Distribution System JCTD
- Path Forward

Purpose

Provide an overview of the Joint Intermodal Working Group (JIWG) and its standardization mission and status

Joint Intermodal Working Group (JIWG)

- Composition:
 - Membership (voting): USTC (chair), Joint Staff/J4, Services, & DLA
 - Advisors (non-voting): OADUSD(TP), SDDC/AMC, Joint Munitions Command, Defense Packaging Policy Group, & Defense Standardization Program Office
 - COCOMs, other DOD/government & industry by invitation
- New JIWG Mission:
 - Facilitate & manage intermodal equipment initiatives
 - Establish DOD standards; enhance integration & interoperability
 - Define joint doctrine, tactics, techniques & procedures; recommend DOD policy to improve E2E distribution effectiveness & efficiency
 - Develop solutions to intermodal equipment problems & issues
- Authorities:
 - JIWG is lead organization under DPO for joint modular intermodal container/platform standards, system development, & policy coordination
 - JIWG is validating authority for new modular container/platform initiatives
 - Honorable Kenneth Krieg - The Undersecretary of Defense for Acquisition, Technology and Logistics- 3 Feb 06 letter of authorization

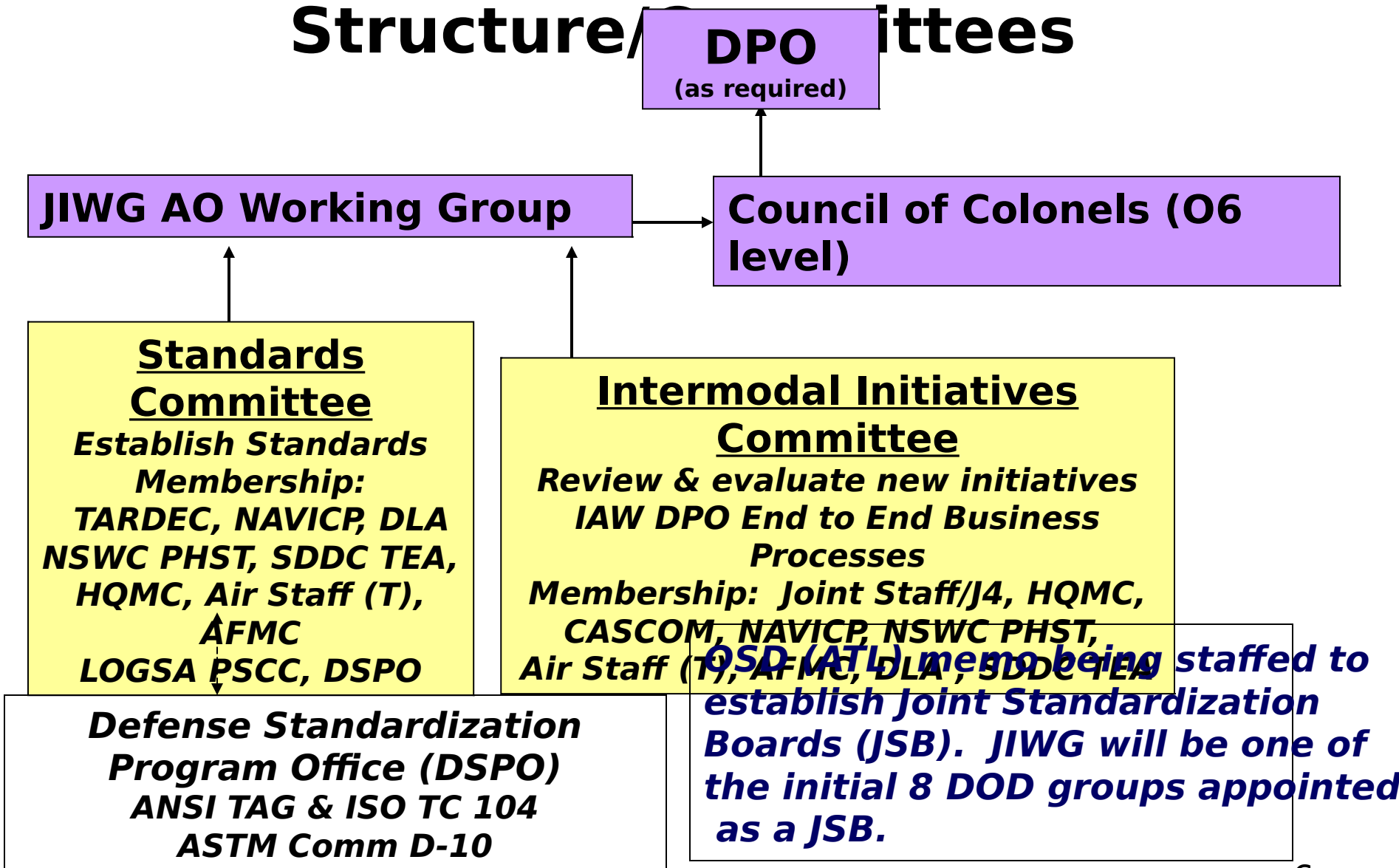
JIWG Scope:

Assets, infrastructure, equipment, systems, procedures & processes for E2E logistic support

- **New equipment:**
 - Size/dimensions & physical characteristics
 - Coding, marking, & identification
 - Handling, lift fittings, & locking devices
 - Safety/material condition standards
- **Information Technology**
 - AIT/RFID & asset management/visibility systems
 - Data standardization & information requirements
- **Policy & doctrine, tactics, techniques & procedures**
- **Joint/DOD terminology & definitions**
- **Studies**

JIWG

Structure/Committees



JIWG Standardization Goals

- **Engage industry partners: air, surface, ocean, intermodal, 3PL, and retail, etc.**
 - **Intermodal Association of North America-Nov 06**
 - **ASTM & ISO**
 - **National Defense Transportation Association**
- **Identify and engage other DOD/government forums working actions related to intermodalism**
 - **DOD Standards Conference May 06**
 - **NATO**
- **Achieve common DOD/industry standards, where possible**

Standards Committee Mission

- **The mission of the JIWG SC is to develop standards IAW DOD 4120.24-M, Defense Standardization Program, Policies & Procedures or Non-Government Standards as applicable.**
- **JIWG SC will act for the Joint Standardization Board for Intermodal Equipment (JSBIE) to initiate, harmonize and coordinate intermodal equipment standardization activities. JSBIE will:**
 - Draft standards for intermodal equipment that have reduced inventory, shorter logistic chains and improved readiness
 - Establish liaisons with various standards bodies and industry
 - Enhance integration and interoperability
 - Provide the interface for commercial/military integration in order to optimize DOD distribution process and improve end-to-end distribution effectiveness and efficiency
- **Representatives include Army - TARDEC (Chair), SDDC TEA, Navy, DLA Joint - 373, DLA - Standards, Army LOGSA, AFMC/LSO/LOT, HQ USMC, Army - ARDEC, TCJ-5, Navy NSWC - IH, DLA -J37**

Standards Committee Six Thrusts

1. Develop Joint Modular Intermodal Container System Standards
2. Develop Joint Modular Intermodal Platform Standards
3. Work with stakeholders to identify and promote Container Asset Tracking Protocols and Standards
4. Develop Standards to address limitations for various intermodal platforms to improve End-to-End (E2E) distribution process
5. Advance the Military utility of intermodal containers through ISO Technical Committee 104
6. Address multinational compatibility and interoperability for intermodal platforms and transportation/handling assets through working with NATO

Areas of standardization for JMIC

Standard on all containers:

- Define interface to increase interoperability and interchangeability
 - Lifting and tiedowns (Mil STD 209 STANAG 4062)
 - Stackable
 - Locking interfaces
- Platform size footprint / internal dimensions
- Compatible with transportation modes
- Compatible with common/joint handling equipment

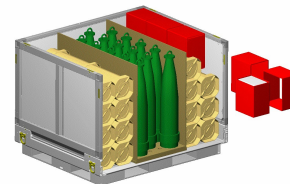
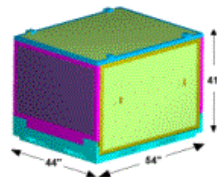
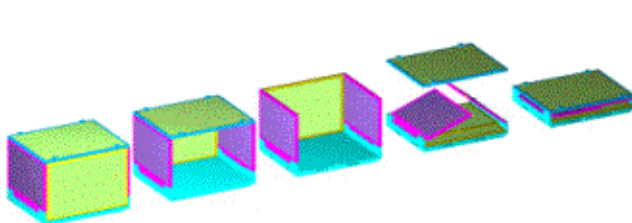
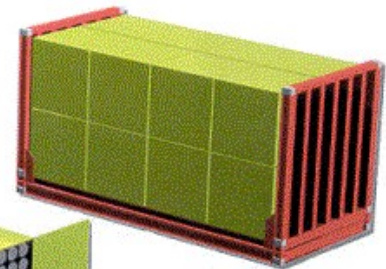
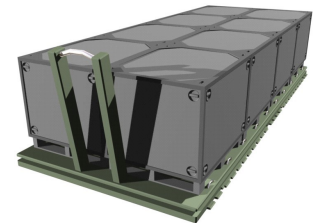
Tailored to user requirements:

- Withstands harsh environments
- Service life
- Accessibility to contents
- Collapsible to minimize transport of empty containers
- Durability / strength
- Gross Weight Capacity

Current Initiatives for Common Intermodal Modular Containers & Platforms

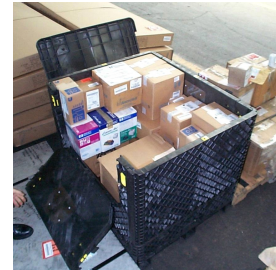
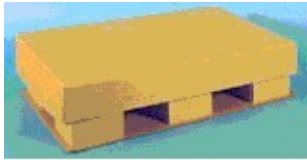
Multiple sized containers that combine to effectively build and break down a 20/40-foot ISO container or 463L pallet into pallet/module sized loads. Goal is to reduce overall theater logistics footprint, including retrograde, while complementing automated loading, handling and storage systems.

- ***Naval Logistics Initiative (NLI)/USTRANSCOM Unitization Demonstrations (Commercial Off-the-Shelf) \$1.8M (FY05-07)***
- ***Army/Navy/USMC Joint Modular Intermodal Distribution System (JMIDS) Joint Capabilities Technology Demonstration (JCTD) (FY06-08)***
 - Joint Modular Intermodal Container
 - Joint Modular Intermodal Platform
 - Integrated AIT



NLI/USTRANSCOM Unitization Demo

Commercial Off-the-Shelf



MUC 48"X40X45.45" 180
lbs Phase I - Navy Aviation
DLR

Reusable Bulk Container
(RBC) 48"x40"x41" 180
lbs

Phase I & II - Navy
Container

P2PACK
47.5"LX39.5"WX28"
Phase I - Current DDSP



ACDS - All-mode Container Delivery System
(comes in wide variety of sizes) - Phase I & II



Clip-Lok - Variety of
sizes (to order)
Phase I



Uni-Pak 48x40x45 90
lbs
Phase II 12

TRANSCOM Unitization Demo

Phase I (FY-05)

- Shipped general supplies from DDSP to II MEF in SWA using COTS containers
 - Pure Pallet via both Air (on 463L) and Sea (TEU)
 - Used All-mode Container Delivery System (44, 52 and 88), RBC (26 & 40) and P220/P230
 - DORRA and SDDC/TEA provided Analysis
 - Survey Results provided by DDSP and II MEF
- Provided containers to II MEF Rear to ship to SWA
 - Provided above containers plus Clip-Lok boxes of selected sizes
 - Survey results from II MEF users (Rear and Fwd. Deployed)
- Analysis
 - Feedback from Marines was very limited but favorable
 - DLA warehouse setup required off line processing of all sizes of ACDS due to physical setup (designed for 48x40).
 - RBC worked well but weight was an issue
 - P230 (DLA standard) most cost effective for single trip (or limited reuse up to about 5 trips) - the various other containers become competitive at between 5 and 50 uses with the P220
 - No reusable container, even at \$100 will be cost competitive unless we can actually get them reused!

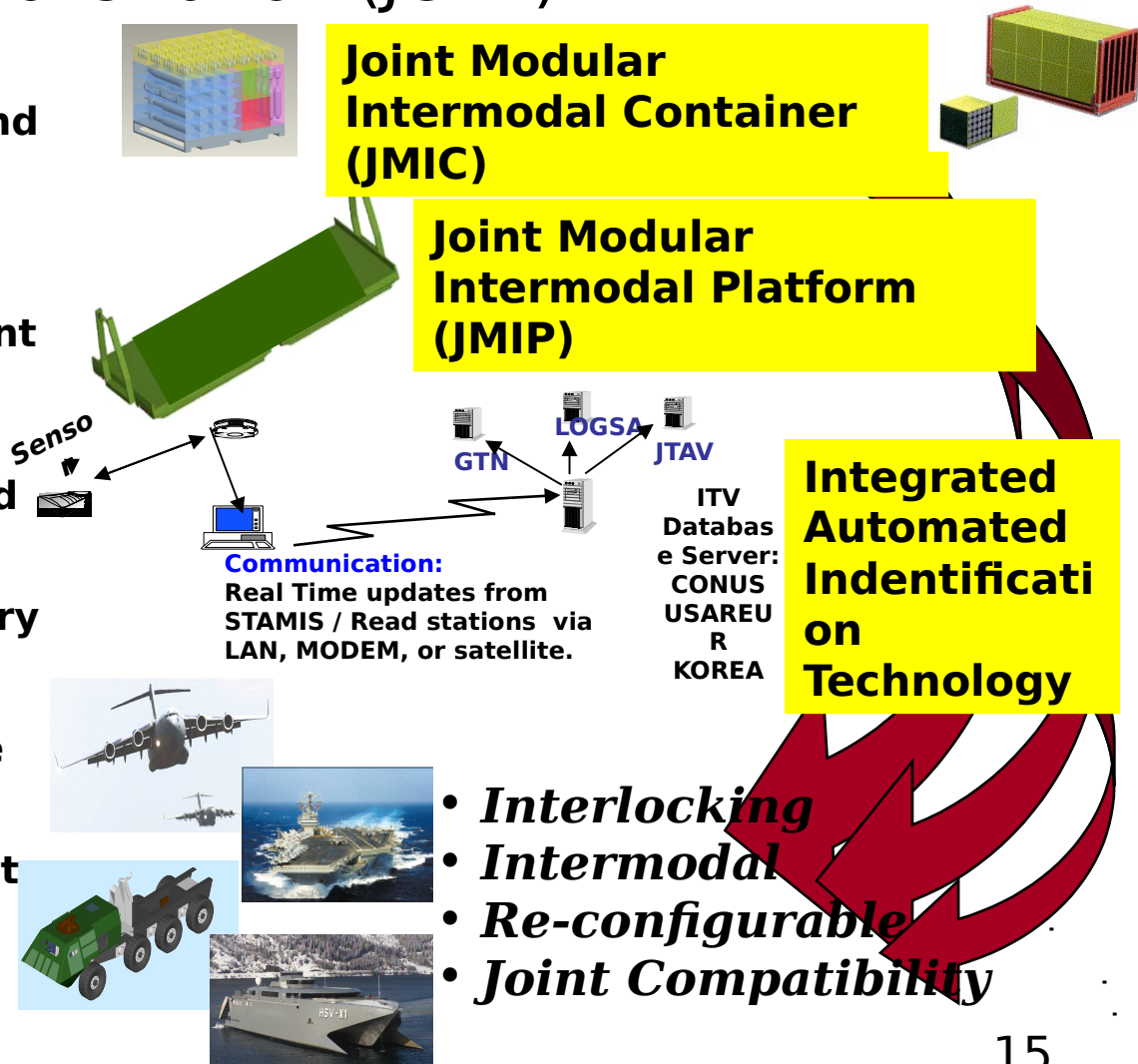
TRANSCOM Unitization Demo

Phase II (FY-06)

- Task 1 – Demonstrate delivery of other than Class V items to Amphib and Small Combatant using COTS containers
 - Some from Prime Vendor
 - Some by CONREP and/or VERTREP
 - Some Direct from CLF
 - Will Utilize ACDS (52x44), RBC (48x40) and UniPak (48x40) – total of 7 containers (size/style variations)
- Task 2 – Prepare for competitive procurement of Modified COTS container(s) meeting a subset of JMIC Requirements suitable for non-Class V cargo – “Poor man’s JMIC” – JMIC interfaces, lighter weight, lower cost, lower weight capacity. Actual procurement in FY-07.

Joint Modular Intermodal Distribution System (JMIDS) Joint Capabilities Technology Demonstration (JCTD)

- JMIDS JCTD will demonstrate, analyze and transition joint service, all-mode containers and platforms that are equipped with Automated Identification Technology (AIT)
- JMIDS will permit efficient, seamless, and visible movement of supplies through the distribution system from CONUS-based depots and vendor locations to tactical end users, including movement through a Seabase to support forward operating expeditionary and task force units
- Goal of this JCTD is to make significant contributions to the agility, flexibility, efficiency, effectiveness, responsiveness, and interoperability of the Joint Distribution System



- *Interlocking*
- *Intermodal*
- *Re-configurable*
- *Joint Compatibility*

Path Forward

- DOD Standardization Conference (May 06)
- Next SC meeting (Jun 06)
- JIWG Council of Colonels/Captains (Jun 06)
- JIWG AO meeting (Sep 06)
- Draft JMIC Standard - Sep 06
- Draft JMIP Standard - FY 07

CONCLUSION

Standards will be based on operational needs and limitations and will promote compatibility, interoperability, interchangeability and commonality to reduce cost and logistical footprint and optimize DOD distribution process!

Any Questions???